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REC'D 21 JUN 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

VIPO PC

(PCT Article 36 and Rule 70)

19 OCT 2004

Applicant's or agent's file reference	pplicant's or agent's file reference FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/4					
P51339						
International application No.	International filing date (day/mor	nth/year) Priority date (day/month/year)				
PCT/US03/12127	18 April 2003 (18.04.2003)	19 April 2002 (19.04.2002)				
International Patent Classification (IPC)	or national classification and IPC	1				
IPC(7): A61K 31/519; A01N 43/90; CO	7D 487/00. and US Cl.: 514/258.1	, 264.1; 544/279.				
Applicant						
SMITHKLINE BEECHAM CORPORA	TION					
This international preliming Examining Authority and	is transmitted to the applicant a					
2. This REPORT consists of	a total of sheets, including	this cover sheet.				
which have been ame	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These appears consist of a total of sheets.					
		14				
3. This report contains indic	ations relating to the following	items:				
I 🔀 Basis of the reg	port					
II Priority		·				
	nent of report with regard to no	velty, inventive step and industrial applicability				
IV \(\sum \) Lack of unity of	of invention					
	ment under Article 35(2) with r itations and explanations support	regard to novelty, inventive step or industrial rting such statement				
VI Certain docum	ents cited					
VII Certain defects	ain defects in the international application					
VIII Certain observ	VIII Certain observations on the international application					
Date of submission of the demand Date of completion of this report						
05 November 2003 (05.11.2003)	09 N	09 March 2004 (09.03.2004)				
Name and mailing address of the IPEA/US		norized officer				
Mail Stop PCT, Attn: IPEA/US	Au	i will a torix				
Commissioner for Patents P.O. Box 1450		kund Shah				
Alexandria, Virginia 22313-1450	Tele	ephone No. 703-308-1235				
Facsimile No. (703)305-3230 Form PCT/IPEA/409 (cover sheet)(July	1998)	<i>U</i>				



International cation No.
PCT/US03/12127

I.	Basi	s of the report						
1.	With regard to the elements of the international application:*							
	\boxtimes	the international application as originally filed.						
	冈	the description:						
	لنسيط	pages 1-60 as originally filed						
		pages NONE , filed with the demand						
		pages NONE, filed with the letter of						
	\bowtie	the claims:						
		pages 61-63 , as originally filed						
		pages NONE , as amended (together with any statement) under Article 19						
		pages NONE, filed with the demand pages NONE, filed with the letter of						
		the drawings:						
		pages 1, as originally filed pages NONE, filed with the demand						
		pages NONE, filed with the letter of						
		the sequence listing part of the description:						
	لـــا							
		pages NONE, as originally filed pages NONE, filed with the demand						
		pages NONE, filed with the letter of						
2.		h regard to the language, all the elements marked above were available or furnished to this Authority in the						
		uage in which the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:						
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).						
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).						
3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
		contained in the international application in printed form.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
ŀ		furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the						
		international application as filed has been furnished.						
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4	. 🛛	The amendments have resulted in the cancellation of:						
		the description, pages NONE						
		57						
1		the claims, Nos. None						
}		the drawings, sheets/fig NONE						
5		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**						
ti	is rep	acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.						

INTERNATIONAL PRELIMARY EXAMINATION REPORT

International ation No.	-
PCT/US03/12127	

	III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	1. The question whether the claimed invention appears to be povel to involve an invention of the first transfer of the claimed invention appears to be povel to involve an invention of the first transfer of the claimed invention appears to be povel to involve an invention of the first transfer of the claimed invention appears to be povel to involve an invention of the claimed invention appears to be povel to to							
	to be industrially applicable have not been and will not be examined in respect of:							
		the entire international application,						
į	\boxtimes	claims Nos. 7						
	because:							
ł	the said international application, or the said claims No.							
		the said international application, or the said claim Nos relate to the following subject matter which doe not require international preliminary examination (specify):						
-								
-								
-								
	Ш	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear						
		that no meaningful opinion could be formed (specify):						
Ì								
1								
		· ·						
		the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.						
	\boxtimes							
L	<u> </u>	no international search report has been established for said claims Nos. 7						
2	. A me	eaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid						
		To the Administrative Instructions.						
		the written form has not been furnished or does not comply with the standard.						
Ļ		the computer readable form has not been furnished or does not comply with the standard.						
LO	nn PC]	[/IPEA/409 (Box III) (July 1998)						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International ation No.
PCT/US03/12127

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IV. Lack of unity of invention	
In response to the invitation to restrict or pay additional fees the applicant has: restricted the claims.	
paid additional fees.	
paid additional fees under protest.	
neither restricted nor paid additional fees.	
2. This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.)
3. This Authority considers that the requirement of unity of invention is accordance with Rules 13.1, 13.2 and 13.3 is	
complied with.	
not complied with for the following reasons:	
This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.	it
Group I, claim(s) 1-6, drawn to compounds in claim 1, their composition, and method of treatment.	
Group II, claim(s) 7, drawn to intermediates.	
The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:	•
A. Compounds of Group I have a core of a bicyclic system of 8H-pyrido[2,3-d]pyrimidin-7-one while those of Group II have a core of a monocyclic system of pyrimidine.	
B. Compounds of Group I have therapeutic value while those of Group II are used as intermediates, and do not share the same utility with those of Group I.	,
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4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:	
all parts.	
the parts relating to claims Nos. 1-6	

Form PCT/IPEA/409 (Box IV) (July1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Form PCT/IPEA/409 (Box V) (July 1998)

International ation No.
PCT/US03/12.../

V. Reasoned statement under Rule 66.2(a)(i citations and explanations supporting suc	i) with regard	rd to novelty	, inventive ste	p or industrial a	pplicability;
1. STATEMENT	a statement	-			
Novelty (N)	Claims Claims	1-6 NONE			YES
Inventive Step (IS)	Claims Claims	1-6 NONE			YES NO
Industrial Applicability (IA)	Claims Claims				YES
2. CITATIONS AND EXPLANATIONS Claims 1-6 meet the criteria set out in PCT Article 3: pyrido[2,3-d]pyrimidin-7-one, does not have an earlie	3(2)-(3). The er publication	reference of V date. Therefo	VO 02/059083, v re, it is not a cor	hile teaches comp	ounds of 8H-
Thus, at the time of the invention, essentially, there	is no teaching	g for the subject	ct matter of clain	ns 1-6.	
Claims 1-6 meet the criteria set out in PCT Article 33 claimed can be made or used in the pharmaceutical in	3(4), and thus dustry as well	they have indu as in a clinica	strial applicabili l setting.	y because the subj	ect matter
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NOTE OF INFORMAL COMMUNICATION WITH THE APPLICANT

(PCT Rule 66.6)

PCT/USO3/12127 P51339 (day/month/year) Applicant SMITHKLINE BEECHAM CORPORATION Participants	International application	No.	Applicant's or agent's f	ile reference	Date of informal comm	unication			
Applicant SMITHKLINE BEECHAM CORPORATION Communication				(day/month/year)					
Communication Derticipants Identity authorization personally		<u> </u>	P51339		09 March 2004 (09.03.	2004)			
Communication Participants Identity authorization personally checked known									
Dark Communication Applicant: SM/TH, KLINE BEBCHAM CORPORATION Agent: DARA L. DINNER Examiner(s): TAMTHOM N. TRUONG	SWITTING BEECH	AW CORPORA I	ION						
Dark Communication Applicant: SM/TH, KLINE BEBCHAM CORPORATION Agent: DARA L. DINNER Examiner(s): TAMTHOM N. TRUONG		· · · · · · · · · · · · · · · · · · ·							
Dark L. Dinner Dark		D		Identity	- authorization -	perconally			
by telephone personal Agent: DARA L. DINNER Examiner(s): TAMTHOM N. TRUONG Summary of communication: An extension of time-limit is-granted (Form-PCT/IPEA/427. A copy of this note is being sent to the applicant with Form PCT/IPEA/429. PCT/IPEA/424. Name and mailing address of the IPEA/US Mail Stop PCT. Ann: PPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. 703-308-1235 Facsimile No. 703-308-1235 Facsimile No. 703-308-1235	Communication	Participants	\triangleright	checked		known			
An extension of time limit is granted (Form PCT/IPEA/427. An extension of time limit is granted (Form PCT/IPEA/427. A copy of this note is being sent to the applicant with Form PCT/IPEA/429. PCT/IPEA/424. Name and mailing address of the IPEA/US Mail Stop PCT. Atta: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Telephone No. 703-308-1235	by telephone	Amplicant	· SM/ITH KI INE RE	ECHAM CODDOD	TION				
Examiner(s): TAMTHOM N. TRUONG Summary of communication: An extension of time limit is granted (Form PCT/IPEA/427. A copy of this note is being sent to the applicant with Form PCT/IPEA/429. A copy of this note is being sent to the applicant with Form PCT/IPEA/429. Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Authorized officer Mukund Shah Authorized officer Mukund Shah Authorized officer Mukund Shah Authorized Officer Mukund Shah Telephone No. 703-308-1235	Z sy torophone	Applicant: SWITH, KLINE BEECHAM CORPORATION							
Summary of communication: Summary of communication: An extension of time limit is granted (Form PCT/IPEA/427. A copy of this note is being sent to the applicant with Form PCT/IPEA/429. PCT/IPEA/424. Name and mailing address of the IPEA/US Mail Stop PCT. Atm. IPEA/US Mill Stop	personal	Agent:	DARA L. DINNER						
Summary of communication: An-extension of time limit is granted (Form PCT/IPEA/427. A copy of this note is being sent to the applicant with Form PCT/IPEA/429. Name and mailing address of the IPEA/US Mail Stop PCT, Attn: PPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)303-3230 Telephone No. 703-308-1235	Porsona	D 5	(-). TARMITTOR (A) mm	10115					
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